

P23903.A02



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Sabine GENICOT et al.

Group Art Unit : 1643

Appln. No : 10/626,671

Examiner : Unknown

Filed : July 25, 2003

For : GALACTAN SULFOHYDROLASES, CORRESPONDING AMINO ACID AND  
NUCLEOTIDE SEQUENCES, SULFOHYDROLASE PREPARATIONS, PROCESSES,  
AND PRODUCTS THEREOF

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Sir :

In accordance with Applicants' duty of disclosure under 37 C.F.R. 1.56, Applicants hereby submit the following Information Disclosure Statement under 37 C.F.R. 1.97 and 1.98, and in conformance with MPEP 609 and 37 C.F.R. 1.98(d).

Applicants hereby make of record the disclosure statements filed October 2, 2000, December 6, 2000, October 4, 2001, and March 15, 2002 and the Information cited by the Examiner in the Office Action mailed November 7, 2001 in Application No. 09/567,003.

The Examiner is respectfully requested to consider the documents cited in the parent application, and to make the documents cited therein of record in the instant application.

Applicants note that copies of documents cited in the above-mentioned disclosure statement have been submitted in parent Application No. 09/567,003. Accordingly, pursuant to 37 C.F.R.

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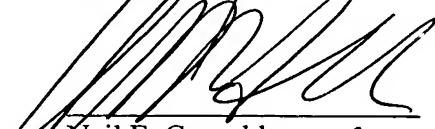
1.98(d) copies of the documents are not being submitted herewith, and the Examiner is invited to review and consider the documents in the parent application. Of course, should any of the documents not be readily available to the Examiner, the Examiner is requested to contact the undersigned and additional copies will be submitted.

Applicants further note that parent Application No. 09/567,003 has matured into U.S. Patent No. US 6,620,604 B1 and a copy is attached hereto.

For the convenience of the Examiner, the above-noted documents cited in the parent applications and U.S. Patent No. US 6,620,604 B1 are listed on the attached Forms PTO-1449. The Examiner is requested to initial the Forms PTO-1449, and to return the initialed copy with the next communication from the U.S. Patent and Trademark Office.

Should the Examiner have any questions or comments regarding this matter, the undersigned may be contacted at the below-listed telephone number.

Respectfully submitted,  
Sabine GENICOT et al.

  
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October 22, 2003  
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Form PTO-1449

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	6 0 3 7 1 5 9	03/14/2000	UCHIMURA et al.			
	6 0 1 3 5 0 4	01/11/2000	YU et al.			
	6 0 0 1 6 2 7	12/14/1999	DÖRREICH et al.			
	5 9 3 9 2 8 9	08/17/1999	ERTESVÅG et al.			

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0 0 / 0 6 6 0 9	02/10/2000	W. I. P. O.			
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1	ARMISEN et al., "Production, Properties and Uses of Agar", <u>Production and Utilization of Products from Commercial Seaweeds</u> , FAO Fisheries Technical Paper, 288, pp. 1-57 (1987).
2	STANLEY, "Production, Properties and Uses of Carrageenan", <u>Production and Utilization of Products from Commercial Seaweeds</u> , FAO Fisheries Technical Paper, 288, pp. 116-146 (1987).
3	THERKELSEN, "Carrageenan", <u>Industrial Gums: Polysaccharides and their Derivatives</u> , 3rd ed., pp. 145-180, (1993).
4	DeRUITER et al., "Carrageenan Biotechnology", <u>Trends in Food Science &amp; Technology</u> , Vol. 8, pp. 389-395 (1997).
5	HOFFMANN et al., "Effect of Isolation Procedures on the Molecular Composition and Physical Properties of <i>Eucheuma Cottonii</i> Carrageenan", <u>Food Hydrocolloids</u> , 9, pp. 281-289 (1995).
6	VIEBKE et al., "Characterization of Kappa- and Iota-Carrageenan Coils and Helices by MALLS/GPC", <u>Carbohydr. Polym.</u> , Vol. 27, pp. 145-154 (1995).
7	Le QUESTEL et al., "Computer Modelling of Sulfated Carbohydrates: Applications to Carrageenans", <u>Int. J. Biol. Macromol.</u> , Vol. 17, pp. 161-174 (1995).

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\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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Sheet 2 of 5

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|   | 9 | REES, "Enzymatic Desulphation of Porphyrin", <u>Biochem. J.</u> , 80, pp. 449-453 (1961).   |
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| 1 | 2 | LAWSON et al., "An Enzyme for the Metabolic Control of Polysaccharide Conformation and Function", <u>Nature</u> , Vol. 227, pp. 392-93 (July 25, 1970).   |
| 1 | 3 | CRAIGIE et al., "Carrageenan Biosynthesis", <u>Proc. Int. Seaweed Symp.</u> , pp. 369-377 (1979).   |
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| 1 | 5 | JOL et al., "A Novel High-Performance Anion-Exchange Chromatographic Method for the Analysis of Carrageenans and Agars Containing 3,6-Anhydrogalactose", <u>Analytical Biochemistry</u> , 268, pp. 213-222 (1999).  |
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| 1 | 9 | VALLON et al., "cDNA Sequence of M(Alpha), the Catalytic Subunit of the <i>Chlamydomonas reinhardtii</i> L-Amino Acid Oxidase (Accession No. <u>U78797</u> ): a New Sequence Motif Shared by a Wide Variety of Flavoproteins", <u>Plant Physiol.</u> , 115, pp. 1729-1731 (1997). |
| 2 | 0 | POTIN et al., "Purification and Characterization of a New $\kappa$ -Carrageenase from a Marine <i>Cytophaga</i> -like Bacterium", <u>Eur. J. Biochem.</u> , 201, pp. 241-247 (1991).  |
| 2 | 1 | KIDBY et al., "A Convenient Ferricyanide Estimation of Reducing Sugars in the Nanomole Range", <u>Analytical Biochemistry</u> , 55, pp. 321-325 (1973).   |

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				Applicant Sabine GENICOT et al.	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)					
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	2	3	FALSHAW et al., "Structural Analysis of Carrageenans from Burmese and Thai Samples of <i>Cantenella nipae</i> Zanardini", <u>Carbohydrate Research</u> , 285, pp. 81-98 (1996).		
	2	4	STORTZ et al., "High-Field NMR Spectroscopy of Cystocarpic and Tetrasporic Carrageenans from <i>Iridaea undulosa</i> ", <u>Carbohydrate Research</u> , 261, pp. 317-326 (1994).		
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	3	4	RENN, "Biotechnology and the Red Seaweed Polysaccharide Industry: Status, Needs, and Prospects", <u>Tibtech</u> , 15, 9-14 (1997).		
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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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